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PATENT & TRADEMARK OFFICE

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Khan et. al.

Serial No.: 10/678,995

Filed: October 3, 2003

For: IMMUNOREGULATOR

Examiner: To be assigned

Group Art Unit: To be assigned

Attorney Docket No.: 3077-4618.1US

CERTIFICATE OF MAILING

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Date

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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with the duty to disclose information material to patentability pursuant to 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO/SB/08 be considered by the Examiner and made of record.

In accordance with 37 C.F.R. § 1.97(g) and (h), filing of this Information Disclosure Statement is not to be construed as a representation that a search has been made or an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b). Further, no representation is made by Applicants herein that no other possible material information as defined in 37 C.F.R. § 1.56(b) exists.

U.S. Patent Documents

U.S. Patent No.	Publication Date	Patentee
#US- 4,977,244	12-11-1990	Muchmore et al.
#US- 5,877,148	03-02-1999	Lunardi-Iskandar et al.
#US- 5,958,413	09-28-1999	Anagnostopulos et al.
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#US- 2002/0064501	05-30-2002	Khan et al.
#US- 2002/0041871	04-11-2002	Brudnak
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#US- 6,489,296	12-03-2002	Grinnell et al.

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Document No.	Publication Date	Patentee
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#EP 1 300 418	04-09-2003	Erasmus Universiteit Rotterdam
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#WO 02/085117	10-31-2002	Eisai Co., Ltd.
#DE 3715662	11-19-1987	The Wellcome Foundation Ltd.
#DE 19953339	05-17-2001	Goldham Pharma GmbH
#96/04008	02-15-1996	Government of the United States

#97/49373	12-31-1997	University of Maryland Biotechnology Institute
#97/49418	12-31-1997	University of Maryland Biotechnology Institute
#97/49432	12-31-1997	University of Maryland Biotechnology Institute

Other Documents

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#CONNELLY et al., Biphasic Regulation of NF-kB Activity Underlies the Pro- and Anti-Inflammatory Actions of Nitric Oxide, The Journal of Immunology, 2001, pp. 3873-81, 166, The American Association of Immunologists, USA.

#FRIEDLANDER, Tackling anthrax, Nature, November 8, 2001, pp. 160-61, Vol. 414.

#MEDZHITOV, Toll-like Receptors and Innate Immunity, Nature Reviews/Immunology, November 2001, pp. 135-45, Vol. 1.

#CHRISTMAN et al., Nuclear factor kappaB: a pivotal role in the systemic inflammatory response syndrome and new target for therapy, Intens Care Med, 1998, pp. 1131-38, Vol. 24.

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#KANUNGO et al., Advanced Maturation of Heteropneustes Fossilis (Bloch) by Oral Administration of Human Chorionic Gonadotropin, J. Adv. Zool., 1999, pp. 1-5, Vol. 20.

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#TAN et al., The role of activation of nuclear factor-kappa B of rat brain in the pathogenesis of experimental allergic encephalomyelitis, Acta Physiol Sinica, 2003, pp. 58-64, Vol. 55.

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#ALBINI, A., et al., "Old drugs as novel angiogenesis inhibitors: Preclinical studies with NAC, hCG, EGCG and somatostatin," 17 CLINICAL & EXPERIMENTAL METASTASIS 739 (1999).

#BLACKWELL, Timothy S., et al., "The Role of Nuclear Factor-kB in Cytokine Gene Regulation," 17 AM. J. RESPIR. CELL MOL. BIOL. 3-9 (1997).

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#KHAN, Nisar A., et al., "Inhibition of Diabetes in NOD Mice by Human Pregnancy Factor," 62(12) HUMAN IMMUNOLOGY 1315-1323 (December 2001).

#KHAN, Nisar A., et al., "Inhibition of Septic Shock in Mice by an Oligopeptide From the β-Chain of Human Chorionic Gonadotrophin Hormone," 63(1) HUMAN IMMUNOLOGY 1-7 (January 2002).

#MUCHMORE et al., Immunoregulatory Properties of Fractions from Human Pregnancy Urine: Evidence that Human Chorionic Gonadotropin is not Responsible, The Journal of Immunology, March 1997, pp. 881-86, Vol. 118, No. 3.

#MUCHMORE et al., Purification and Characterization of a Mannose-Containing Disaccharide Obtained from Human Pregnancy Urine, Journal of Experimental Medicine, December 1984, pp. 1672-85, Volume 160.

#PATIL, A., et al., "The Study of the Effect of Human Chorionic Gonadotrophic (HCG) Hormone on the Survival of Adrenal Medulla Transplant in Brain. Preliminary Study," 87 ACTA NEUROCHIR (WIEN) 76-78 (1987).

#SLATER, Lewis M., et al., "Decreased Mortality of Murine Graft-Versus-Host Disease by Human Chorionic gonadotropin, "23(1) TRANSPLANTATION 103-104 (January 1977).

#WULCZYN, F. Gregory, et al., "The NF-kB/Rel and IkB gene families: mediators of immune response and inflammation," 74(12) J. MOL. MED. 749-769 (1996).

#YAMAMOTO, Y., et al., "Role of the NF-kB Pathway in the Pathogenesis of Human Disease States," 1(3) CURRENT MOLECULAR MEDICINE 287-296 (July 2001).

#Pursuant to 37 C.F.R. § 1.98(d), copies of the previously identified patents are not being provided since they were previously cited by or submitted to the Office in the following prior application:
Serial No.: 09/716,777
Filed: November 20, 2000
For: IMMUNOREGULATOR, which application is being relied upon for an earlier filing date under 35 U.S.C. § 120.

This Supplemental Information Disclosure Statement is believed to be filed before the mailing date of a first Office Action on the merits; therefore, no fee is due.

Respectfully submitted,

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Date: March 11, 2004
ACT/bv
Enclosures: Form PTO/SB/08

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 3

Complete if Known	
Application Number	10/678,995
Filing Date	October 3, 2003
First Named Inventor	Khan et. al.
Group Art Unit	To be assigned
Examiner Name	To be assigned
Attorney Docket Number	3077-4618.1US

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.[1]	Document Number Number - Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		#US- 4,977,244	12-11-1990	Muchmore et al.	
		#US- 5,877,148	03-02-1999	Lunardi-Iskandar et al.	
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		US-			

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		#EP 1 138 692 A1	10/04/2001	Erasmus Universiteit Rotterdam		
		#EP 1 300 418	04-09-2003	Erasmus Universiteit Rotterdam		
		#WO 98/35691	08-20-1998	Proscript, Inc.		
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		#97/49418	12-31-1997	University of Maryland Biotechnology Institute		
		#97/49432	12-31-1997	University of Maryland Biotechnology Institute		

Examiner Signature		Date Considered	

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
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